FIG. 1

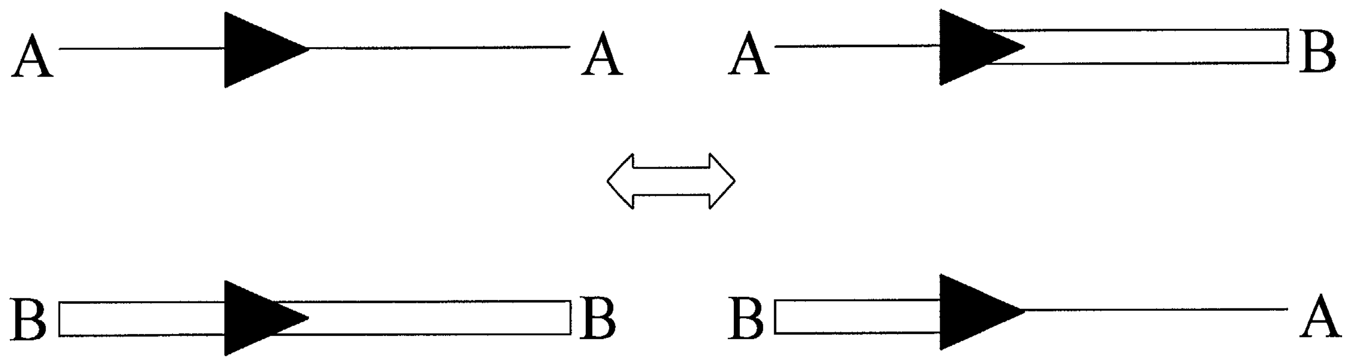


FIG. 2

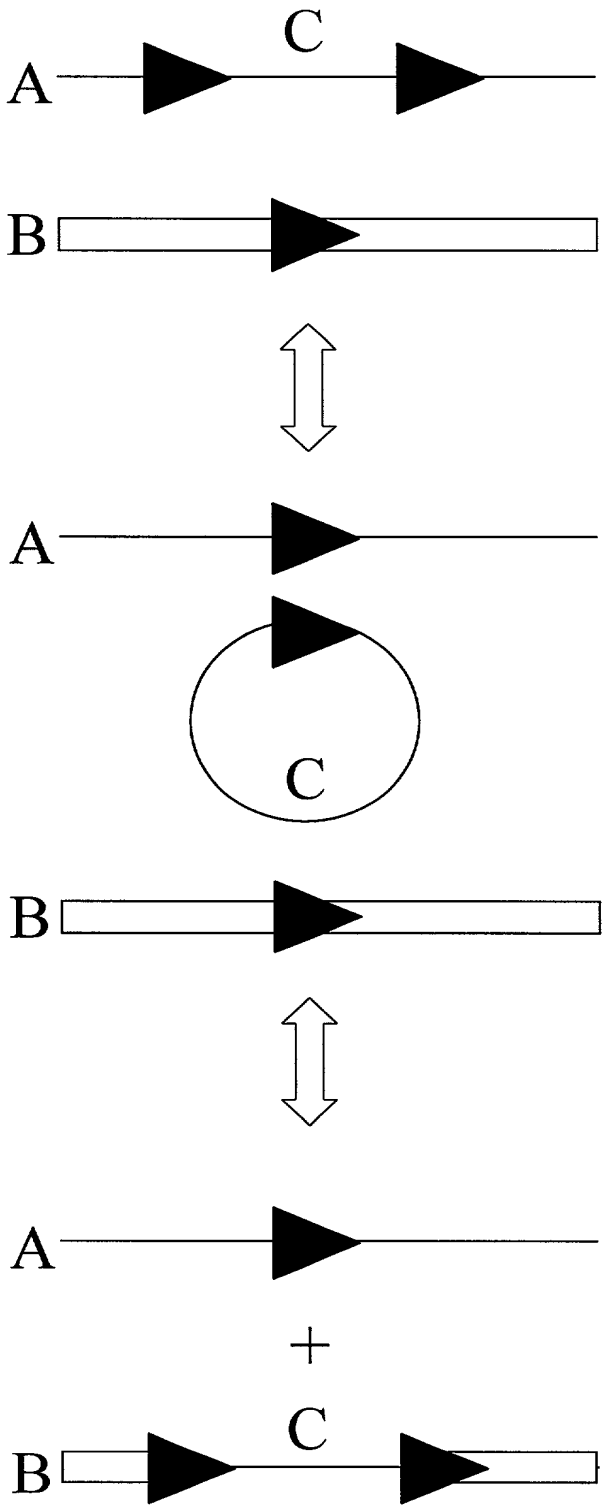


FIG. 3

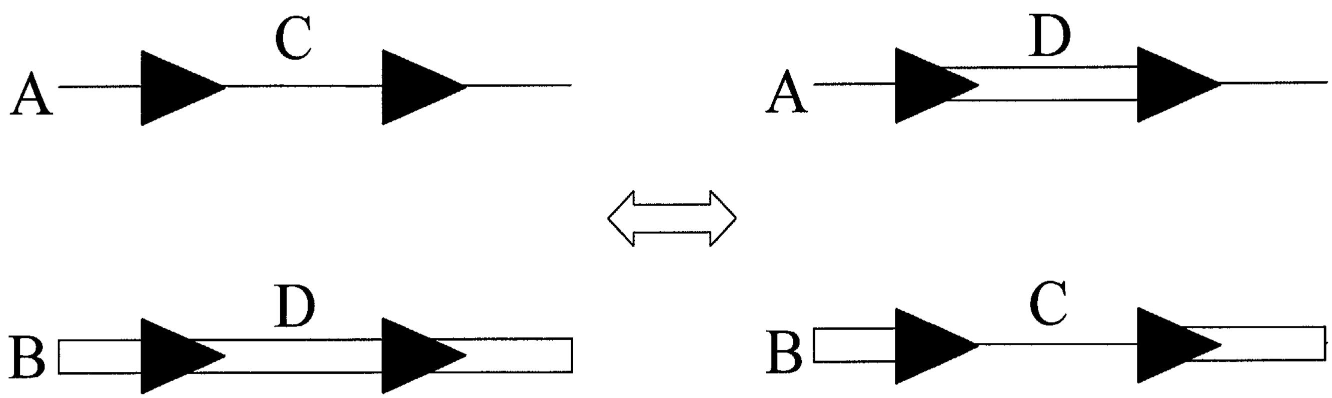


Figure 4B

Intragenomic Mobililization Strategy (IMS) for Targeted Integration

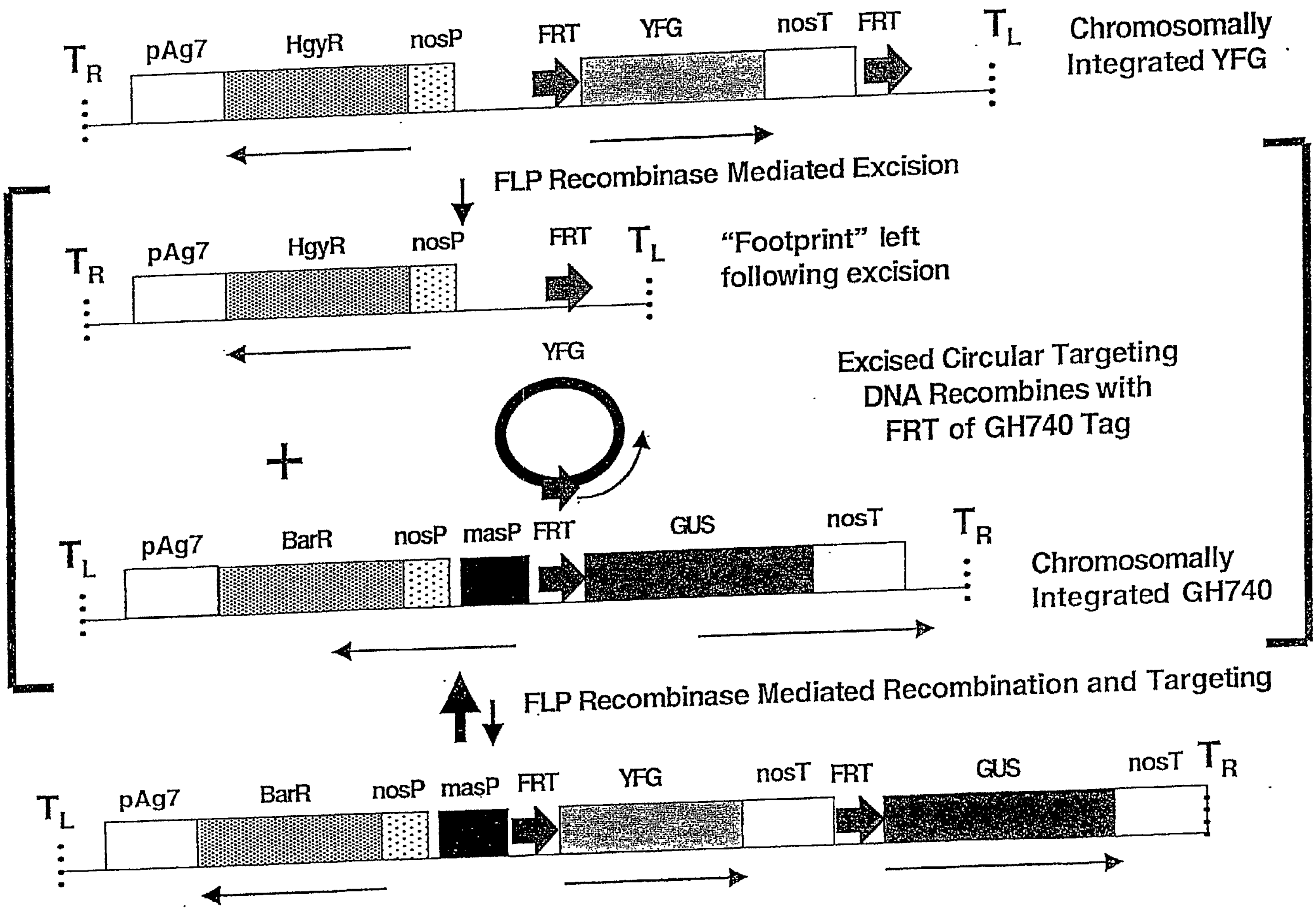


FIG 4A Targeted Chromosomally Integrated Product

Fig 4B

Intragenomic Mobililization Strategy (IMS) for Targeted Integration

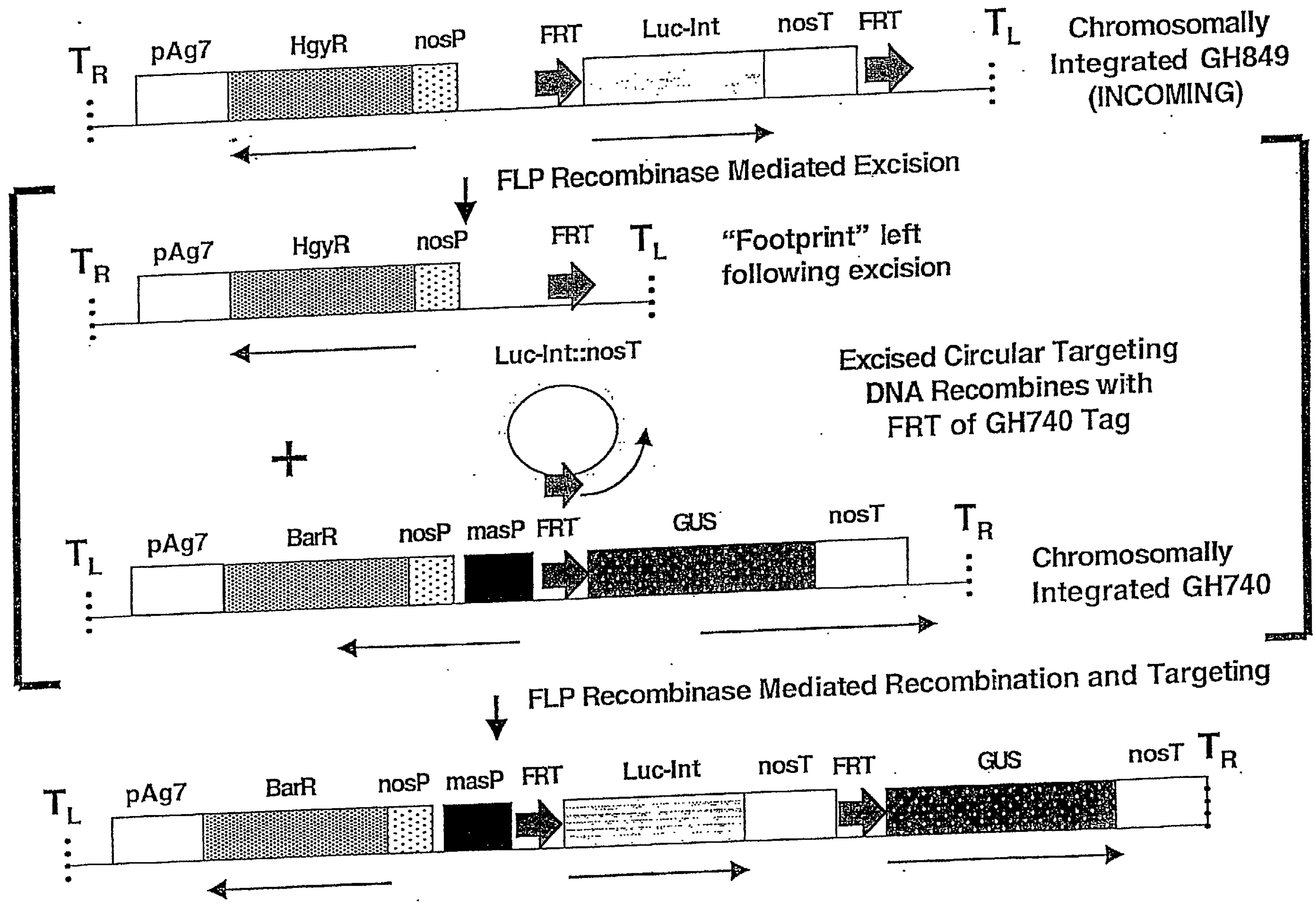


FIG 4B Targeted Chromosomally Integrated Product

FIGURE 5

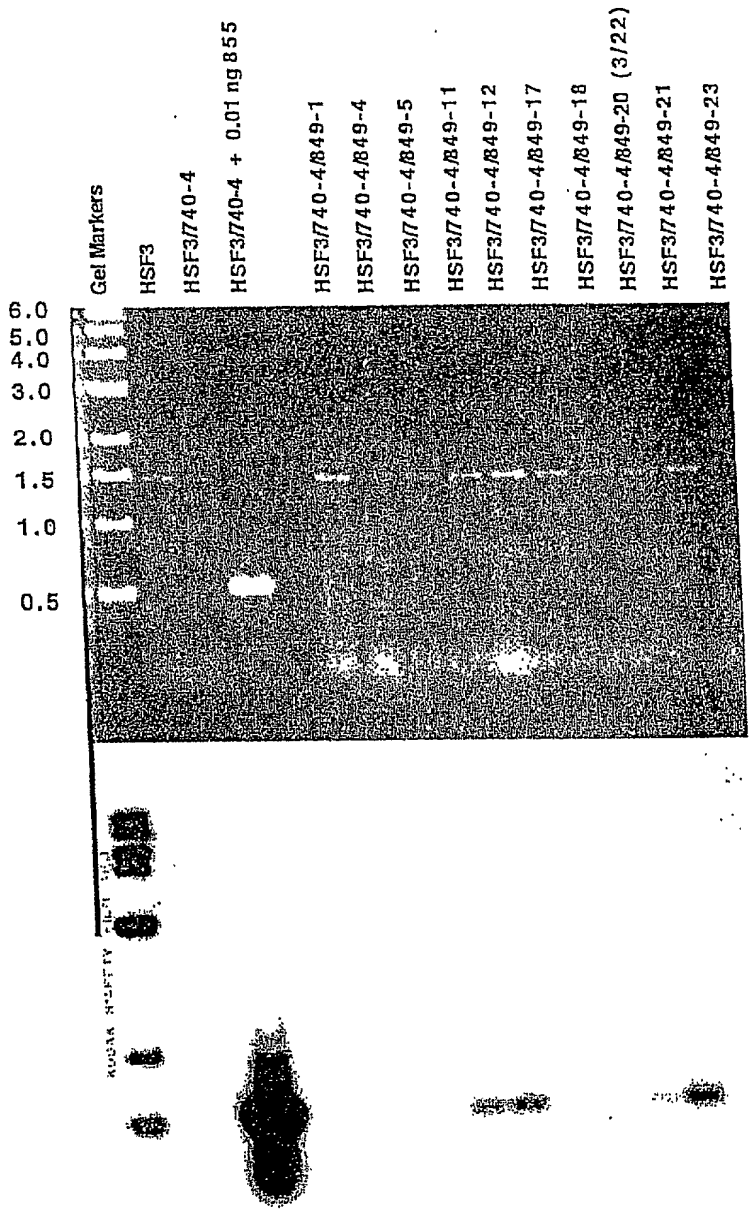


FIG 5

Site-specific gene targeting with GH 849 in cultured tobacco cells. NT-1 cells contalning a single copy of the GH740 Tag (740-4) and the HS::FLP gene were re-transformed using Agrobacterium with the Integration Targeting construct GH849 and selected on 50 µg/ml hygromycin. Isolates were selected and suspension started. The suspension cells were grown at 27oC and transferred weeklyby inoculating 0.5 ml into 5 ml of fresh data. The DNA used for the PCR reaction was collected from cells 64 days after infection (DAI). PCR conditions were 62oC annealing for 35 cycles. Twenty microliters of each PCR sample were loaded on each lane. The control containing GH855 contained only 6 microliters. The Southern blots were 32-P probed with gel-isolated Luc-Int insert from pLUK07 and hybridized at 42oC. The film was exposed overnight at -70oC

FIGURE 6

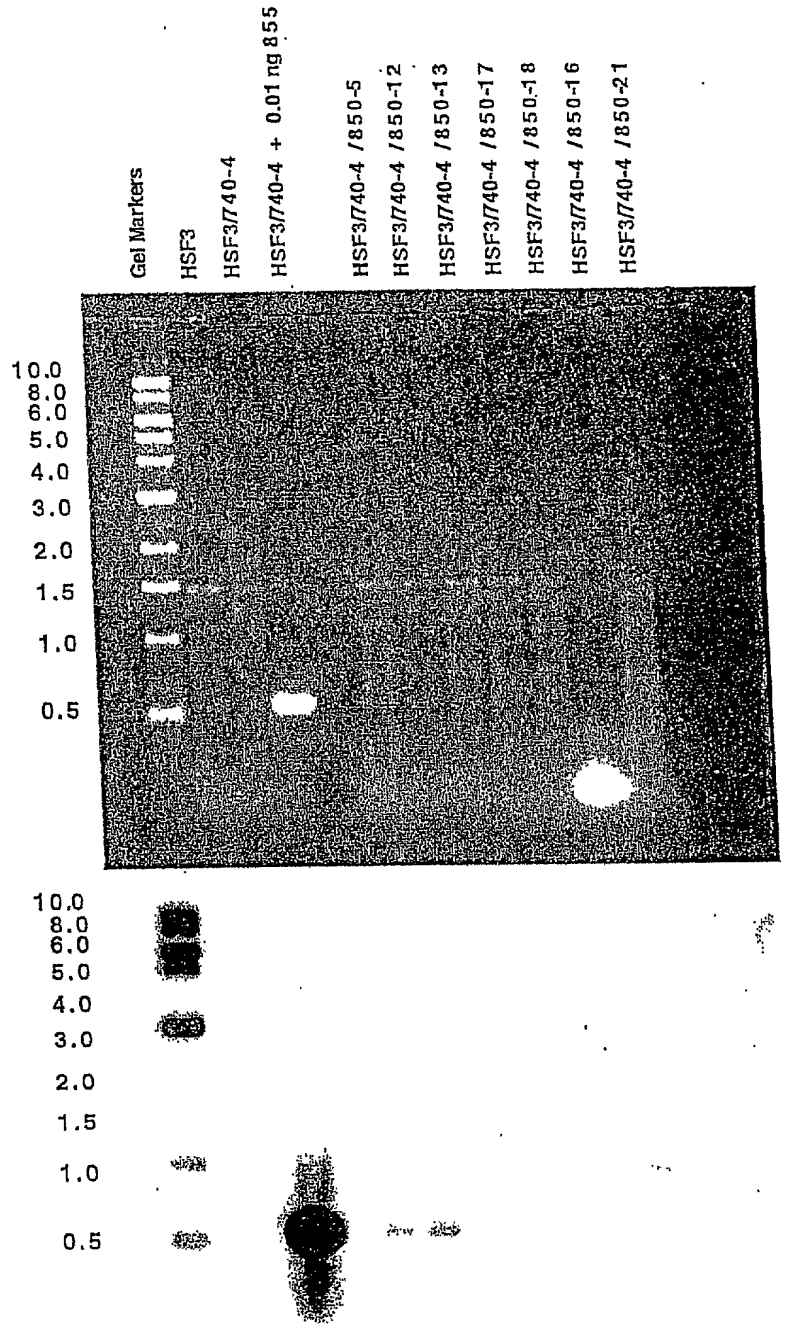
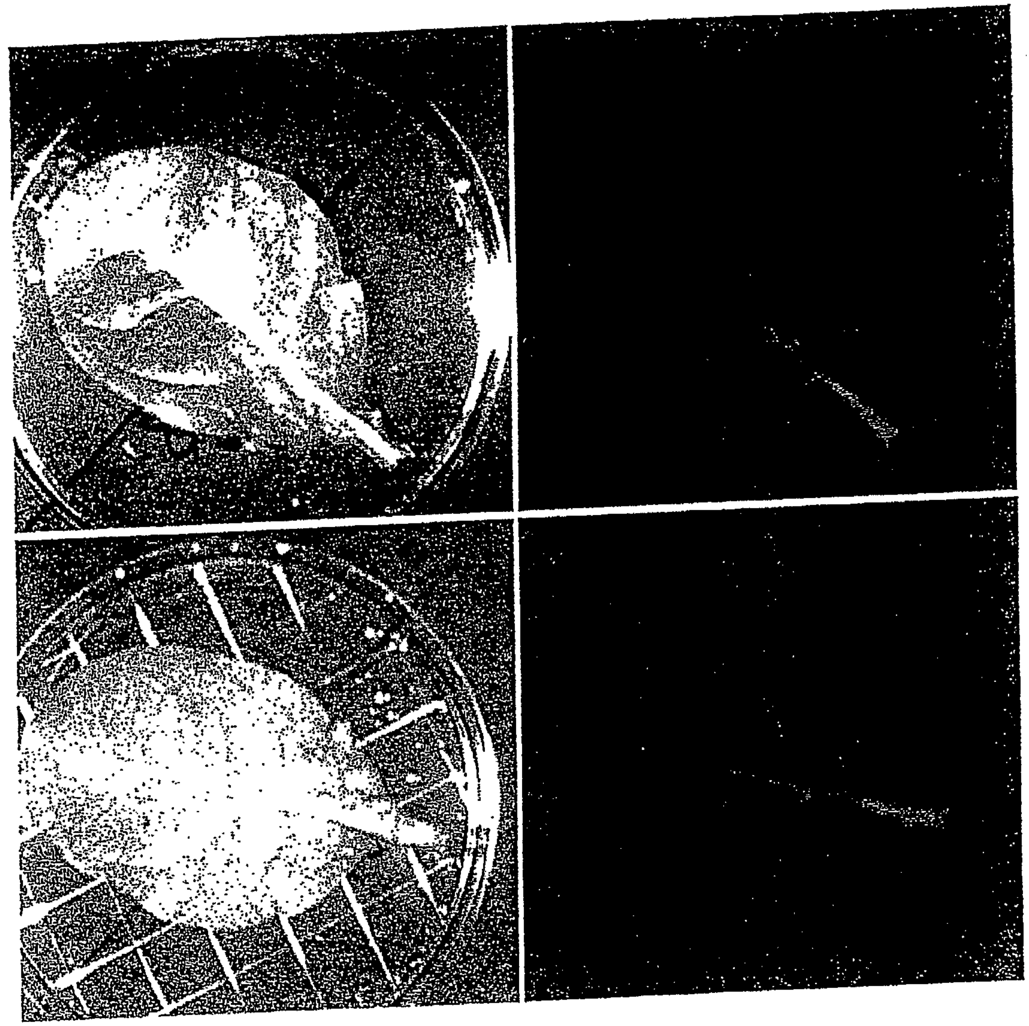


FIG 6

Site-specific gene targeting with GH 850 in cultured tobacco cells. NT-1 cells containing a single copy of the GH740 Tag (740-4) and the HS::FLP gene were re-transformed using Agrobacterium with the Integration Targeting construct GH850 and selected on 50 µg/ml hygromycin. Isolates were selected and suspension started. The suspension cells were grown at 27oC and transferred weeklyby inoculating 0.5 ml into 5 ml of fresh data. The DNA used for the PCR reaction was collected from cells 64 days after Infection (DAI). PCR conditions were 62oC annealing for 35 cycles. Twenty microliters of each PCR sample were loaded on each lane. The control containing GH855 contained only 6 microliters. The Southern blots were 32-P probed with gel-isolated Luc-Int insert from pLUK07 and hybridized at 42oC. The film was exposed overnight at -70oC

Upper Side

Lower Side



Visible

Luciferase

FIG 7

FIG. 8